Serial ATA Supplemental Design Guide

Supplement ID	**001**
Applicable Spec.	**1.0 Gold**

Submission info

Name	Company	Date
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Description of design guidance

Spread spectrum clocking in a high-speed serial interface is fairly unique to Serial ATA. As such, it represents a potential risk factor for deployment of initial devices.

Spread spectrum transmission in Serial ATA is optional behavior. However, since the device at one end of the cable cannot know whether the optional spread spectrum transmission is implemented by the device it is communicating with at the other end, receivers need to tolerate reception of a spread spectrum signal. This carries a potential design risk in developing and deploying receivers that are spread spectrum capable in order to accommodate behavior that is optional.

Supplemental Information

In order to mitigate design and product risk for initial Serial ATA deployment, it is recommended that implementations that support spread spectrum transmission capability also provide a means by which to disable this optional feature and revert to non- spread spectrum transmission mode.

Disposition log

10/10/2001	Submitted for review